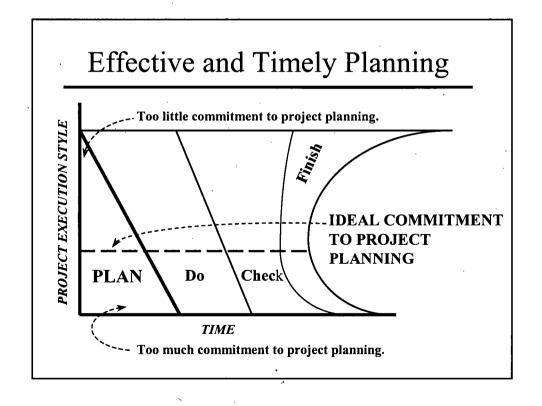
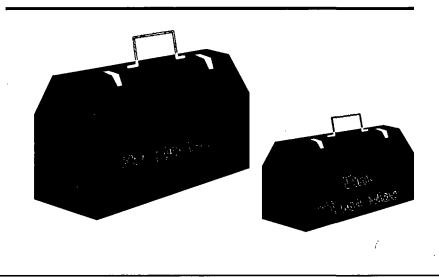


EM 200-1-2 Technical Project Planning (TPP) Key Tools/Concepts





TPP Tools and Concepts



Multi-disciplinary Team

- Communication is essential
- Three key perspectives but with numerous team resources
- First -Decision Makers
 - Project Managers
 - Customer
 - Regulators
 - Stakeholder



Multi-disciplinary Team con't

- Data Users
 - Risk (Problem- Yes /No)
 - wrt public safety and human use/human health/enviroment/
 - Compliance (Problem Yes/No)
 - wrt ARARs, or offsite remedy related issues
 - Remedy (Fix problem)
 - Responsibility (Who's problem?)
- Data Implementors
 - · Sampling
 - Analysis

Differing Perspectives

- Understand, document, and respect each
 - Customer
 - Regulators
 - Stakeholders
 - Technical Team



Existing Site Information

- What is available?
- Who has what?
- Who needs what?

Conceptual Site Model

- Review site information and data to identify preliminary Conceptual Site Model (CSM)
- CSM will help identify data gaps that exist
- Concept of CSM may be different for different team members



Conceptual Site Model

- Minimum components
 - Source including environmental setting
 - Topography, surface water hydrology, geology, hydrogeology, land use
 - Interaction
 - · Release mechanism
 - Migration pathways
 - Exposure routes
 - Receptors

Site Closeout Statement







- Focus efforts from the current site status and condition through any necessary remediation, operation and maintenance, or monitoring efforts
- Developed and embraced by all team members



Executable Stages

- CERCLA/RCRA phases
- Challenge team to evaluate all options

Project Objectives

- Project objectives are based on regulations
- Generic CERCLA objectives from 40 CFR 300
- Make site specific based on conceptual site model
- Example : "Nature and Extent of Source Area"



Constraints and Dependencies

- Identify prior to becoming problems
- Associated with field activities and with overall project execution
- Document and share with team

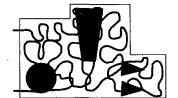
Data Needs

- Data needs associated with project objectives from data user perspective
- Evaluate usability of existing data
- Data needs
 - Environmental data needs
 - Site information needs



Define OE Data Needs

- Sampling Approach
- Total Acreage Covered
- Geophysical Instruments
- Field Modifications
 - Rationale
 - Communication
 - Authorization



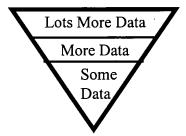
Data Needs

- "Who" needs the data
- "What" data is needed
- "What" is the data use(s) intended (project objective)
- "What" number of samples are required to satisfy the intended use(s)
- "What" are the performance requirements/
- concentrations of interest
- "Where" is the area/location/depth of interest



Quality of Data

- Optimize the design
- Right amount of data, not just



Basic, Optimum and Excessive

- Basic data is associated with this executable stage
- Optimum data is associated with future executable stages leading to site closeout
- Excessive data is not directly related to site closeout

 EXCESSIVE ----

OPTIMUM - - - -

BASIC - - -



Data Quality Objectives

- Intended Data Use
- Data Need Requirements
- Appropriate Sampling and Analysis Methods

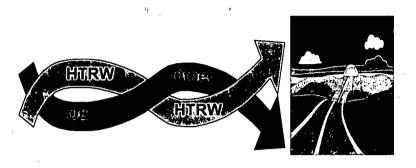
Documentation and Communication

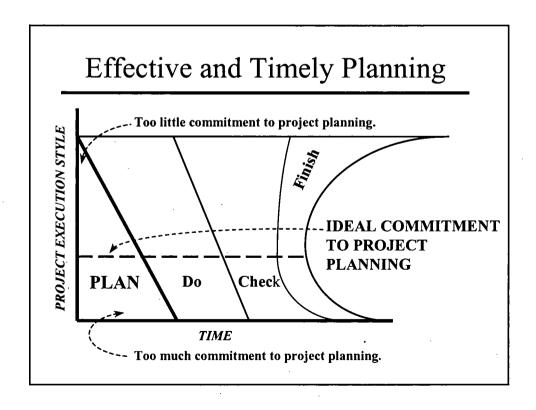
- Creates a "team developed" record of major project elements
- Provides all information necessary for project management plan
- Roadmap for future
- Allows for QA/QC
- Gives new team members a quick start
- Team building and synergy



Successful Completion

• Site Closeout of Both HTRW and OE Projects







EM 200-1-2

(USACE TPP Guidance Document)

- · Provides TPP Guidance
 - Define Project Objectives
 - Develop Data Collection Options
 - Design Data Collection Plans
 - Define Data Quality Objectives (DQOs)
- Promotes Identification of *Type* and *Quality* of Data Required for Progress to Site Closeout
 - Investigations/Feasibility Studies
 - Design/Site Remediation
 - Operation/Maintenance and Monitoring

Additional Information

- Heidi Novotny, USACE HTRW CX (TPP Expert) (402) 697-2626
- Joy Rodriquez, USACE (TPP PROSPECT Workshop) (256) 895-7448

http://hq.environmental.usace.army.mil/tools/tpp/tpp.html